THERMOMETRICS
A COMMITMENT TO EXCELLENCE

Type CSP
Thermometrics Laboratory NTC Temperature Standards



The Type CSP Temperature Standards are ultrastable probe thermistors which have been calibrated to an accuracy of 0.01°C. The standard unit has a thin, conformal coating of silicone rubber over the entire unit; this makes it suitable for immersion in a water bath. They are also available with stainless steel sensor housings, or they can be encapsulated into various sheaths. See assemblies depicted in the figure.

Applications

All units can be supplied with calibrations over different temperature ranges, with longer leads; and with various coatings.

Data

Two types of CSP Thermoprobes are stocked for quick delivery:

- The CSP60BA252M, with a nominal resistance of 2500 ohms @25°C, is furnishedwith calibration over the range of 0° to 50°C.
- The CSP60BT103M has a nominal resistance of 10K ohms @25°C and is furnished with calibration over the range of 0° to 100°C.

The calibration table normally furnished with the CSP60BA252M provides data every 0.25°C between 0° and 50°C. The table furnished with the CSP60BT103M provides data every 0.5°C over the range of 0° to 100°C. Both units are furnished with interpolation equations which are accurate to 0.01°C. Tables with calibration data furnished every 0.01, 0.05 or 0.1°C are also available.

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Nominal Curve for CSP60BA252M

Temperature °C	Resistance Ratio R_T/R_{25}	Temperature °C	Resistance Ratio R_T/R_{25}
0.00	2.84438	30.00	0.82461
5.00	2.28160	35.00	0.68340
10.00	1.84096	40.00	0.56913
15.00	1.49390	45.00	0.47620
20.00	1.21899	50.00	0.40025
25.00	1.00000		

Nominal Curve for CSP60BT103M

Temperature °C	Resistance Ratio R_T/R_{25}	Temperature °C	Resistance Ratio R_T/R_{25}
0.00	2.94227	65.00	0.23773
5.00	2.33994	70.00	0.20279
10.00	1.87383	75.00	0.17368
15.00	1.51049	80.00	0.14932
20.00	1.22532	85.00	0.12886
25.00	1.00000	90.00	0.11159
30.00	0.82084	95.00	0.09697
35.00	0.67752	100.00	0.08455
40.00	0.56219		
45.00	0.46887		
50.00	0.39295		
55.00	0.33087		
60.00	0.27985		

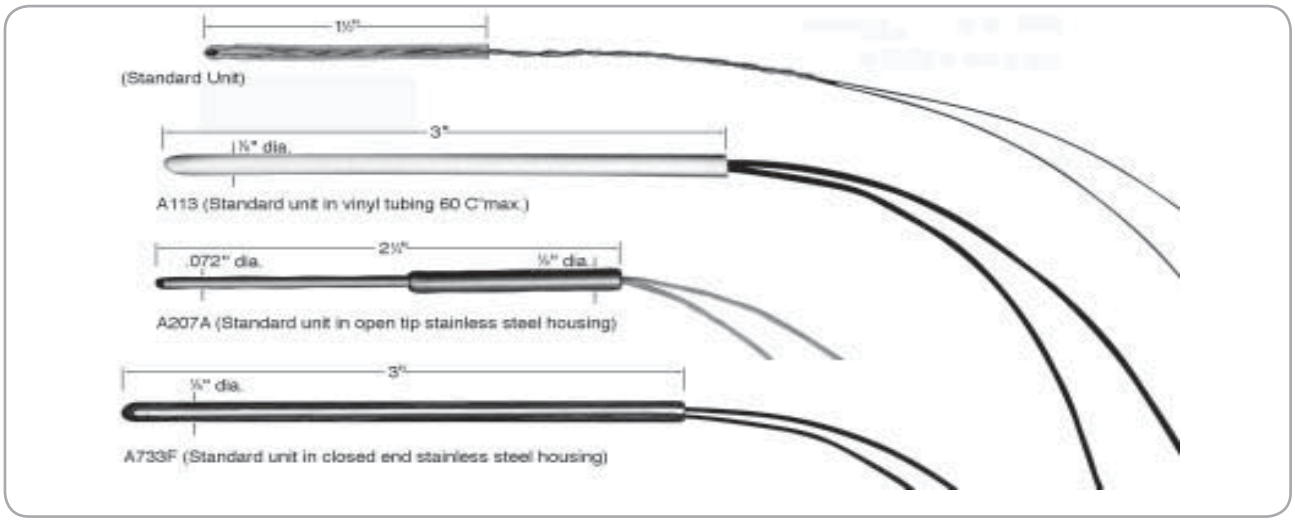
Coding: Ordering Code Description

CSP60BA252M Nominal resistance 2500 ohms @ 25°C, calibration table every 0.25°C between 0 and 50°C
CSP60BT103M Nominal resistance 10K ohms @ 25°C, calibration table every 0.5°C between 0 and 100°C

Options

A113	- CSP60B _ _ _ _ _	=	Standard in vinyl tubing (60°C Maximum Temperature)
A207A	- CSP60B _ _ _ _ _	=	Standard in open tip stainless steel housing.
A733F	- CSP60B _ _ _ _ _	=	Standard in closed end stainless steel housing.

Standard Configuration



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